



A Belgian student's dorm room project in 2000 is now a tool used throughout the world in 2008

Dries Buytaert: "The web is changing. User contribution is now what makes or breaks a site. Allowing users to react, participate and contribute while still keeping your site under control can be a huge challenge "

ITAC Meeting

4/11/08

- **What is it?**
- **What motivated our interest?**
- **Where is it used?**
- **How does it work (demo)?**
- **Under The Hood**

What is Drupal?

“ Dries: A chain of unexpected events”





- **An open source content management system (plus)**
 - *Dries: “a web application platform used to deliver a wide variety of web applications including single or multi-user blogs, wikis, community networks, digital media portals, and core web content management”*
- **The Plus**
 - ✓ A development platform with many contributed modules
 - ✓ A flexible theme approach for different “look and feel”
 - ✓ Web 2.0 kinds of features (*forums, blogs, wiki-like features for collaborative web authoring, RSS feeds, etc*)
 - ✓ Enterprise ready
 - Flexible authorization (*permissions, groups*)
 - Integrates with LDAP, OpenID
 - ✓ Flexible deployment (*Linux, Mac OSX or Windows, Apache or IIS*)



JOINT BIOENERGY INSTITUTE (JBEI)

A JBEI request started us down the Drupal path





Search

About Us | Committees | FAQs | All Forums | Publications | Links

JBEI Teams

- Feedstocks
- Deconstruction
- Fuels Synthesis
- Technology
- Strategic Integration
- Operations
- Management

ceverboom

- My blog
- Create content
- Recent posts
- My account
- Web File Manager
- News aggregator
- Log out

Who's online

There is currently 1 user and 1 guest online.

Online users

Welcome to the JBEI Collaboration Space

Tags: All Users Advisory Committee

You can find information by choosing from the general links above or on the JBEI Teams links on the left.

1 read

Will you be driving to work at the new JBEI Facility (Emery Station East)?

Submitted by kavina on Mon, 03/31/2008 - 08:31.

We are trying to assess the parking needs of JBEI staff, and need your input on how much parking we will actually need. Your answer is very important, and will enable us to accurately estimate our parking needs.

Thanks in advance for your prompt responses.

For anybody currently holding a badge that you received from Krys Avina, please note that these are temporary only.

For all JBEI staff: please keep in mind that there will be a monthly fee for parking permits at our new facility.

☐ No, I will not drive to work - I will find alternative modes of getting to work (AC Transit, BART, LBL Shuttle, EmeryGoRound Shuttle, Bike, Walk)

Events

«April 2008»

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Active forum topics

Upcoming events

Biofuels

- Most state fleets sidestep ethanol use
- Clean Energy Stocks Fall
- KC awaits Blunt's waiver of ethanol blend mandate

[more](#)



The process that led to Drupal

“Perfect is the enemy of good”



- **Review Wiki's**
 - <http://www.wikimatrix.org/>
 - ~ 100 to choose from, rapidly evolving, data not always accurate
- **Evaluate Wiki & CMS collaboration alternatives**
 - Mediawiki (lacking access controls)
 - Deki Wiki (lacks tool set – great UI however)
 - Xwiki (Greg H – mixed results w/Potter customers)
 - Confluence (commercial wiki)
 - Webspaces (lack of tools, single source authentication)
 - Drupal (CMS with many optional modules)
- **Fast Track Evaluation** *(using our VMWare Virtual Machine infrastructure)*
 - VM appliances, VM servers w/typical install
- **Decision**
 - Drupal chosen for initial prototype for collaboration
 - VM for JBEI production site
 - VM for IT development
 - VM for IT pilot use



Where is it used?



External Sites (take the tour)

- <http://www.linuxjournal.com/>
- <http://www.wineinstitute.org/>
- <http://www.gtri.gatech.edu/>
- <http://warnerbrosrecords.com/>
- <http://www.theonion.com/content/index>
- <http://www.spreadfirefox.com/>
- <http://www.citris-uc.org/>
- <http://osuosl.org/>

LBLN/IT Sites

- [**hdnews.lbl.gov**](http://hdnews.lbl.gov)
- [**Status.lbl.gov**](http://Status.lbl.gov) (hosted off site)
- [**Jbeiwiki.lbl.gov**](http://Jbeiwiki.lbl.gov)



How does it work?

emphasis is on interactive/dynamic content



Demo: hdnews.lbl.gov

- **Blog**
 - **Forum**
 - **Events**
 - **Poll**
 - **Story**
 - **Books**
-
- *Every piece of content is termed a “node”*
 - *Custom content (or nodes) can be created extending the standard out of box offering (think of a very low end Filemaker or MS Access tool)*
 - *Users can post comments (if authorized) which adds an interactive quality to the web site*



Under the Hood - Look and Feel



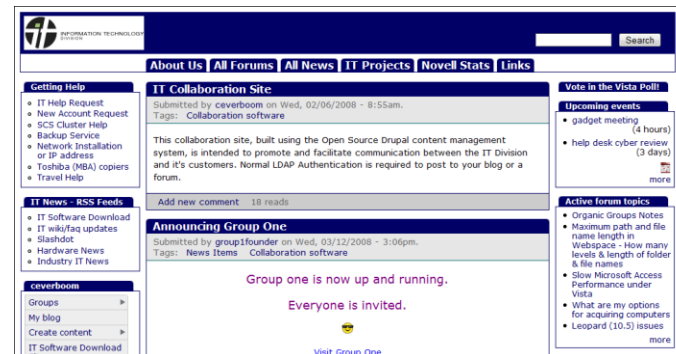
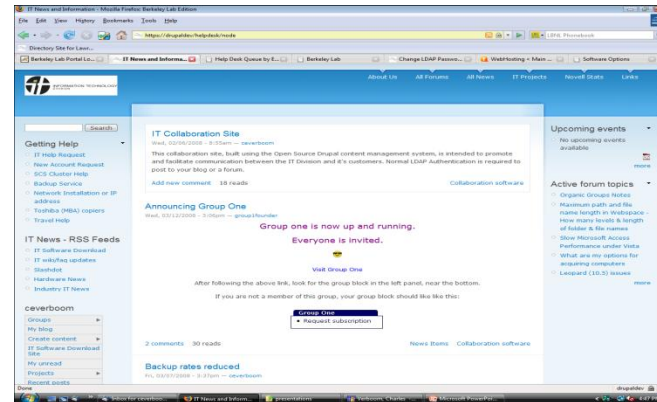
The idea of themes

- Core (e.g. Garland)
- Contributed
(e.g. slash_blue,)
- Do-it-yourself

Menu's

Editors

- TinyMCE
- Html
- Plain text



Under The Hood – RSS Feeds



Acquire and Categorize feeds

Administer>Content Management>News Aggregator

1. Add Category

(if more than one feed will be grouped together)

2. Add feed(s)

- ✓ Title
- ✓ URL (from syndication site)
- ✓ Update Interval
- ✓ Categorize news item (if appropriate)



News feeds from the BBC

- [What are news feeds?](#)
- [How can I use them?](#)
- [How do I get a news reader?](#)
- [Can I use these feeds on my site?](#)
- [Can I create my own BBC News feeds?](#)



Create menu

Administer>Site Building>Menus

1. Add Menu (e.g. IT News – RSS Feeds)

2. Add Menu Items

- ✓ Title
- ✓ Description
- ✓ Path (relative to drupal)
 - Aggregator/sources/9
 - Aggregator/categories/6

3. Activate (and locate) block

IT News - RSS Feeds

- IT Software Download
- IT wiki/faq updates
- Slashdot
- Hardware News
- Industry IT News

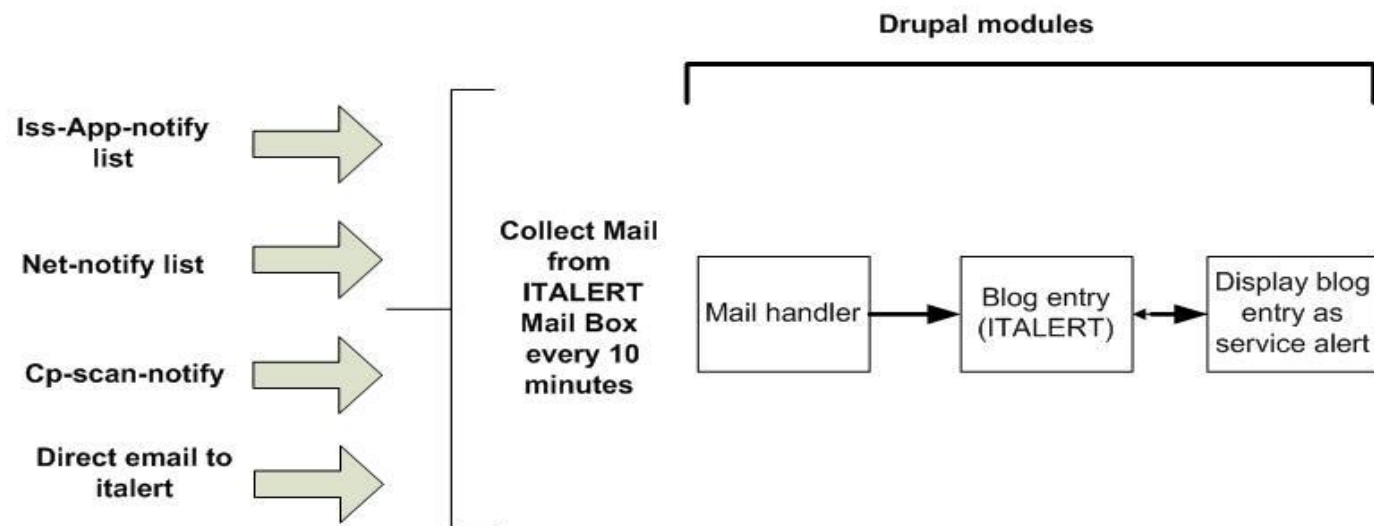


Under The Hood – IT Service Alerts



ITALERT PROCESS

Monday, March 31, 2008



ITALERT set up as imap mail box

Resulting Block on hdnews site

IT Service Alerts

- Scanning trexqa.lbl.gov
- Re: 60network pings from offsite
- Re: 60network pings from offsite
- 60network pings from offsite

[more](#)



INFORMATION TECHNOLOGY
DIVISION

Authentication



Current Environment

- LDAP for local users
- Local account database for external users

Collaborative Environment

- Local users by Single Sign On (SSO)
- External users through OpenID
- High trust through Shibboleth (UCTrust)



Authorization

(the third approach we have explored)



Roles and Organic groups

1. Roles allow group creator rights

2. Organic groups

- Allow for groups, subgroups
- Flexible subscription
 - ✓ Private
 - ✓ Public
 - ✓ By invitation
- Flexible access
 - ✓ Allows content to be restricted to group members
 - ✓ Allows group edits of a piece of content
 - ✓ Allows filtered lists of content by group

Home

My groups


Groups | My groups | Group activity

View | Override | Clone | Export

You may edit all your email subscriptions using this convenient page. Also, you might be interested in an [OPML feed](#) containing feeds from all your subscribed groups.

Group	Manager	Subscribers	Email	Manage
hdnews Development group	jmpetersen	6		my subscription
hdnews Development group - documentation subgroup	jmpetersen	3		my subscription
hdnews Development group - to do list subgroup	jmpetersen	3		my subscription
hdnews Development group - future ideas subgroup	jmpetersen	2		my subscription
hdnews mpsg	ceverboom	5		my subscription

[OPML](#)



Next Steps



- **Continue to use hdnews.lbl.gov to help manage our Novell conversion effort**
- **Solicit feedback from the lab community – should this technology continue to be used for other purposes?**

